

Hybrid optical disc utilising a DVD and a CD Layer

Claims

1. A two sided hybrid disc comprising
a CD disc body (402, 503) and a DVD disc body (401, 504), which disc
bodies have different thicknesses,
the CD disc body having:
 - a data recording surface (101), and
 - a flat outer surface (500) through which the opposite data recording
surface is viewable by a scanning laser (409, 509),a target material layer deposited on the data recording surface of the
DVD disc body;
the DVD disc body having:
 - a data recording surface, and
 - a flat outer surface (306) through which the opposite date recoding
surface is viewable by a scanning laser,a target material layer deposited on the data recording surface of the
DVD disc body;
the two disc bodies being fixed together with their data recording sur-
faces facing each other by an adhesive layer,
characterized in that at least one of the two disc bodies is made from a
plastic material having a refractive index N which is below 1,5, espe-
cially in an area 1,5 to 1,2, preferably within 1,5 to 1,3 and more pre-
ferred within 1,5 to 1,4 and that the two disc bodies bonded by the ad-
hesive layer form a hybrid disc of a thickness of less than 1,5 mm thick-
ness.

2. The disc of claim 1, wherein the refractive index N is in the area 1,5 to 1,2.
3. The disc of claim 1, wherein the refractive index N is in the area 1,5 to 1,3.
4. The disc of claim 1, wherein the refractive index N is in the area 1,5 to 1,4.
5. The disc of claim 1, wherein the ratio of the thickness of the CD disc body to the thickness of the DVD disc body is approximately 3 to 2.
6. The disc of claim 1, wherein the DVD disc body and CD disc body are made of material of different refractive index.
7. The disc of claim 1, wherein the DVD disc body has a thickness of approximately 0,52 plus minus 0,02 and wherein the CD disk body is made from a plastic material having a refractive index N which is below 1,5.